

Contents

Volume 243 (1990)

Research Letters

Clastogenic effects of copper sulphate on the bone marrow chromosomes of mice in vivo by K. Agarwal, A. Sharma and G. Talukder (India)	1
Killing and mutation induction in quiescent V79 cells as influenced by nalidixic acid by R. Ghosh (Datta) and S.B. Bhattacharjee (India)	7
Levels of sister-chromatid exchanges in hybrids between Bloom syndrome B-lymphoblastoid cells and various cell lines with lymphoid malignancy by Y. Shiraishi, H. Kobuchi, K. Utsumi and J. Minowada (Japan)	13
Specificity of spontaneous mutation in the <i>lacI</i> gene cloned into bacteriophage M13 by F. Yatagai and B.W. Glickman (Japan and Canada)	21
Cytotoxic effects of zirconium oxychloride on bone marrow cells of mice by S. Ghosh, A. Sharma and G. Talukder (India)	29
Molecular characterization of hprt mutants induced by low- and high-LET radiations in human cells by J.M. Whaley and J.B. Little (U.S.A.)	35
Comparison of mutagenicity and theoretical reactivity of 2,4-dinitrobenzaldehyde and 2,6-dinitrobenzaldehyde in bacterial mutation assay and molecular orbital method by M. Sayama, M.-a. Mori, H. Shinoda and H. Kozuka (Japan)	47
Adaptive response to 2 low doses of X-rays in human blood lymphocytes by S. Fan, Vijayalaxmi, G. Mindek and W. Burkart (Switzerland)	53
Mutagenic compounds in an extract from <i>Rutae Herba</i> (<i>Ruta graveolens</i> L.) II. UV-A mediated mutagenicity in the green alga <i>Chlamydomonas reinhardtii</i> by furoquinoline alkaloids and furocoumarins present in a commercial tincture from <i>Rutae Herba</i> by O. Schimmer and I. Kühne (F.R.G.)	57
The effect of valproic acid on SCE and chromosome aberrations in epileptic children by L. Hu, X. Lu, B. Lu and Y. Huang (China)	63
Indications of an adaptive response in C57BL mice pre-exposed in vivo to low doses of ionizing radiation by A. Wojcik and H. Tuschl (Austria)	67
Unequal SCE is a rare event in homologous recombination between duplicated <i>neo</i> gene fragments in CHO cells by D. Hellgren, S. Sahlén and B. Lambert (Sweden)	75
Effects of low-dose hydrogen peroxide treatment of V79 cells on killing and mutation by different agents by S. Sengupta (Dasgupta) and S.B. Bhattacharjee (India)	81
The effect of microwave radiation on the cell genome by V. Garaj-Vrhovac, D. Horvat and Z. Koren (Yugoslavia)	87
Localization of breaks induced by vinyl chloride in the human chromosomes of lymphocytes by A. Fucic, D. Horvat and B. Dimitrovic (Yugoslavia)	95
Increased frequency of 6-thioguanine-resistant lymphocytes in peripheral blood of workers employed in cyclophosphamide production by E. Hüttner, U. Mergner, R. Braun and J. Schöneich (G.D.R.)	101
Synergistic induction of cytogenetic damage by the homo-aza-steroidal ester of <i>p</i> -bis(2-chloroethyl)aminophenylacetic acid in combination with caffeine in human lymphocytes in vitro and in Ehrlich ascites tumour cells in vivo by C. Petrou, D. Mourelatos, J. Dozi-Vassiliades and P. Catsoulacos (Greece)	109
Mutagenic activity in regional foods and beverages from the Venezuelan Andean region by M.T. Brito, A. Martínez and N.F. González Cadavid (Venezuela)	115
Co-transfer of restriction endonucleases and plasmid DNA into mammalian cells by electroporation: Effects on stable transformation by T. Yorifuji and H. Mikawa (Japan)	121
Aneuploidy assay on diethylstilbestrol by means of in situ hybridization of radioactive and biotinylated DNA probes on interphase nuclei	

by A. De Sario, P. Vagnarelli and L. De Carli (Italy).....	127
A sensitive assay for detecting mutations resulting from unequal homologous recombination without phenotypic selection by R. Kominami (Japan).....	133
<i>Salmonella typhimurium</i> TA100Tn5-1012, a strain deficient in arylhydroxylamine <i>O</i> -esterificase, exhibits a reduced nitroreductase activity	
by E.C. McCoy, H.S. Rosenkranz and P.C. Howard (U.S.A.).....	141
Non-phenotypic selection of <i>N</i> -methyl- <i>N'</i> -nitro- <i>N</i> -nitrosoguanidine-directed mutation at a predicted hotspot site by A.J.E. Gordon, W.E. Schy and B.W. Glickman (Canada).....	145
Suppression of 6-TG-resistant mutations in V79 cells and recessive spot formations in mice by vanillin by H. Imanishi, Y.F. Sasaki, K. Matsumoto, M. Watanabe, T. Ohta, Y. Shirasu and K. Tutikawa (Japan)	151
Participation of <i>rec</i> genes of <i>Escherichia coli</i> K12 in W-reactivation of UV-irradiated phage λ by D. Simić, B. Vuković-Gačić and J. Knežević-Vukčević (Yugoslavia).....	159
Induction of error-free DNA repair in <i>Escherichia coli</i> by thiamine deprivation by N. Sharma and P.S. Fitt (Canada)	165
Clastogenic effects of <i>cis</i> -diamminedichloroplatinum	
II. Induction of chromosomal aberrations in primary spermatocytes and spermatogonial stem cells of mice by I.-D. Adler and A. El Tarras (F.R.G. and Egypt)	173
DNA-replication recovery inhibition and subsequent reinitiation in UV-radiation-damaged <i>E. coli</i> : a strategy for survival by C.O. Doudney (U.S.A.).....	179
Mutagenicity experiments on L-cysteine and D-penicillamine using V79 cells as indicators and for metabolic activation by H. Glatt, D. Utesch, M. Herbst and F. Oesch (F.R.G.)	187
Structure, chemical reactivity, and in vitro mutagenic activity in a series of fecapentane analogues by C.E. Voogd, L.B.J. Vertegaal, M. van der Steeg, A. van der Gen and G.R. Mohn (The Netherlands).....	195
Metabolic activation of 2,4-dinitrobiphenyl derivatives for their mutagenicity in <i>Salmonella typhimurium</i> TA98 by T. Hirayama, K. Iguchi and T. Watanabe (Japan).....	201
High frequency of spontaneous <i>Minute</i> mutations detected in the F_1 progeny of interstrain matings between a recombination-defective <i>mei-9^{L1}</i> and the <i>y w m f/sc⁸(y⁺) Y B^S; dp</i> strain of <i>Drosophila melanogaster</i> by T. Miyamoto (Japan).....	207
Inhibition of DNA synthesis and cytotoxic effects of some DNA topoisomerase II and gyrase inhibitors in Chinese hamster V79 cells by D. Suciú (U.S.A.)	213
DNA repair and chromosomal stability in the alkylating agent-hypersensitive Chinese hamster cell line 27-1 by B. Kaina, A.A. van Zeeland, A. de Groot and A.T. Natarajan (F.R.G. and The Netherlands)	219
The effect of glutathione depletion on sister-chromatid exchange induction by cytostatic drugs by B. Köberle and Günter Speit (F.R.G.)	225
Thymidylate synthetase gene as a quantitative mutation marker in Chinese hamster cells by I.-Chan Li, C.-C. Chang and J.E. Trosko (Taiwan and U.S.A.)	233
Immunological alteration of the Bloom's syndrome uracil DNA glycosylase in Epstein-Barr virus-transformed human lymphoblastoid cells by G. Seal, E.E. Henderson and M.A. Sirover (U.S.A.)	241
5-Formyldeoxyuridine: a new type of DNA damage induced by ionizing radiation and its mutagenicity to <i>Salmonella</i> strain TA102 by H. Kasai, A. Iida, Z. Yamaizumi, S. Nishimura and H. Tanooka (Japan)	249
Human lymphocyte proliferation kinetics in Hanks' BSS supplemented with autologous plasma and in synthetic medium by M.E. Gonsebatt and O. Mutchinick (Mexico)	255
The relation between induced reciprocal translocations and cell killing of mouse spermatogonial stem cells after combined treatments with hydroxyurea and X-rays by P.P.W. van Buul and J.H. Goudzwaard (The Netherlands).....	259
Expression of the <i>recA</i> gene is reduced in <i>Escherichia coli</i> topoisomerase I mutants by A. Urios, G. Herrera, V. Aleixandre and M. Blanco (Spain)	267
Inhibition of induction of adaptive response by <i>o</i> -vanillin in <i>Escherichia coli</i> B by K. Watanabe, T. Ohta, M. Watanabe, T. Kato and Y. Shirasu (Japan)	273
1-Chloromethylpyrene: a reference skin sensitizer and genotoxin by J. Ashby, J.E. Gallagher, M. Kohan, H. Tinwell, I. Kimber, D. Paton, R.D. Callander and I. Chouroulinkov (Great Britain, U.S.A. and France).....	281

Oncogene alterations in in vitro transformed rat tracheal epithelial cells by M.J. Mass, N.S. Schorschinsky, J.A. Lasley, D.K. Beeman and S.J. Austin (U.S.A.)	291
Suppressing effects of vanillin, cinnamaldehyde, and anisaldehyde on chromosome aberrations induced by X-rays in mice by Y.F. Sasaki, T. Ohta, H. Imanishi, M. Watanabe, K. Matsumoto, T. Kato and Y. Shirasu (Japan)	299
Influence of S9 mix on the expression of mutants in the L-arabinose resistance test of <i>Salmonella typhimurium</i> by T. Roldán-Arjona, M. Ruiz-Rubio and C. Pueyo (Spain)	303
Mutagenic activity of metabolites contained in the plasma of Sprague-Dawley rats treated with cyclophosphamide by D. Arnsdorff-Roubicek and H.J. Targa (Brasil)	309
Holoenzyme DNA polymerase III fixes mutations by S.K. Bryan, M. Hagensee and Robb E. Moses (U.S.A.)	313
<i>Contents, Vol. 243 (1990)</i>	319

